

JDBC in Java

Java Database Connectivity (JDBC) is a **Java API that allows your Java program to talk to a database** like MySQL, Oracle, PostgreSQL, etc.

In simple words

JDBC is the **bridge between Java code and databases**.

Without JDBC:

- Java cannot directly access a database

With JDBC:

- Java can **connect, read, write, update, and delete data** in a database

Download Jdk from

<https://www.oracle.com/java/technologies/downloads/>

and install it .

And Download **MySQL Connector/J,**

[https://dev.mysql.com/downloads/connector/j/:-](https://dev.mysql.com/downloads/connector/j/)

MySQL Connector/J, which is the **JDBC driver for Java applications**. It lets Java programs connect to MySQL databases.

And download **IntelliJ IDEA**

The Leading IDE for Professional Development in Java and Kotlin

<https://www.jetbrains.com/idea/download/?section=windows>

inside code create java class file `DBConnection.java` file code:-

```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;

public class DBConnection {
    public static void main(String[] args) {

        String url = "jdbc:mysql://localhost:3306/testdb";
        String user = "root";
        String password = ""; // XAMPP default is empty

        try {
            Connection conn = DriverManager.getConnection(url, user,
password);
            System.out.println("Connected to XAMPP MySQL successfully!");

            conn.close();
        } catch (SQLException e) {
            System.out.println("Connection failed!");
            e.printStackTrace();
        }
    }
}
```

dev.mysql.com/downloads/connector/j/?utm_source=chatgpt.com

MySQL Community Downloads

Connector/J

General Availability (GA) Releases Archives

Connector/J 9.7.0

Select Operating System:
Platform Independent

Platform Independent (Architecture Independent), Compressed TAR Archive <small>(mysql-connector-j-9.7.0.tar.gz)</small>	9.7.0	4.3M	Download
Platform Independent (Architecture Independent), ZIP Archive <small>(mysql-connector-j-9.7.0.zip)</small>	9.7.0	5.1M	Download

We suggest that you use the MD5 checksums and GnuPG signatures to verify the integrity of the packages you download.

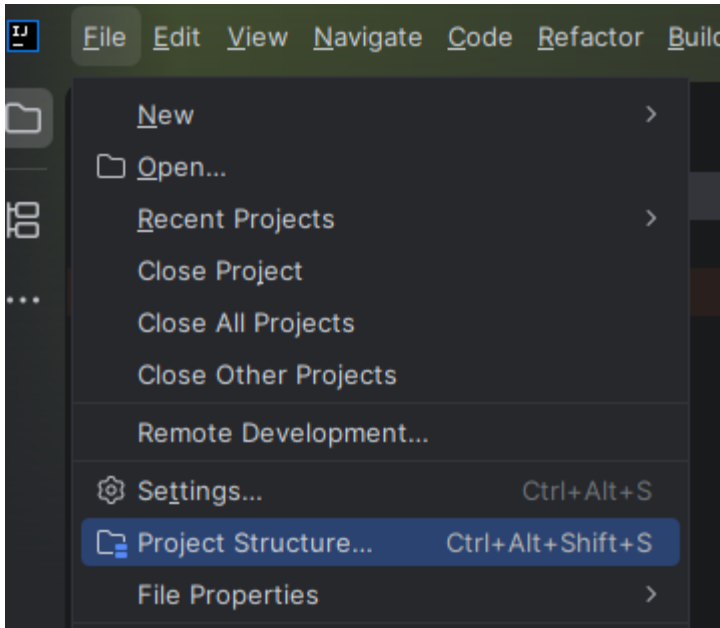
And extract zip file in your folder for example

This PC > Anigrfx-02 (F:) > java-demo > mysql-connector-j-9.7.0

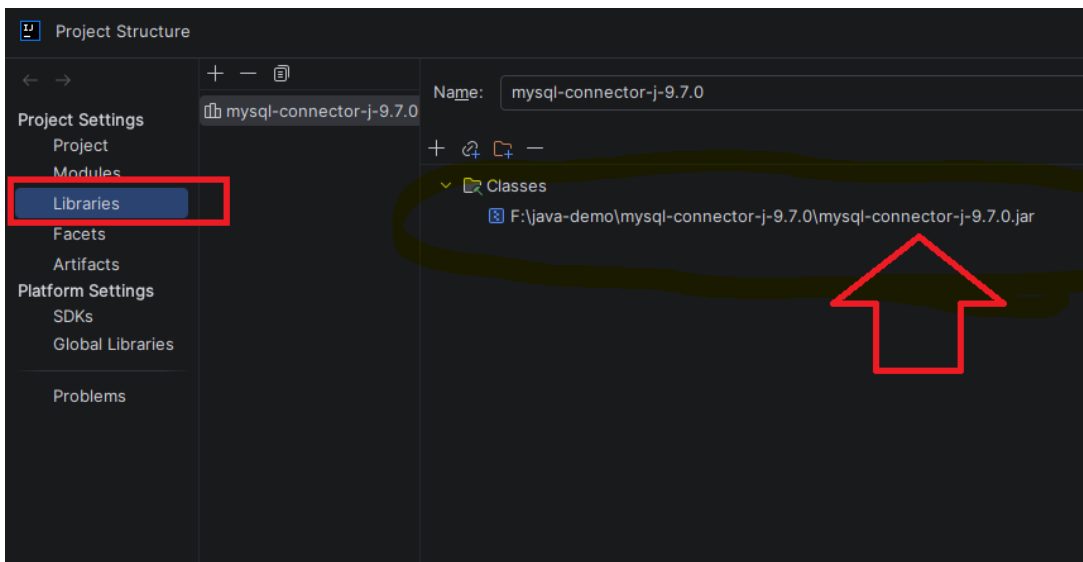
Name	Date modified
com	27-03-2026 15:14
META-INF	27-03-2026 15:15
src	27-03-2026 15:15
build	27-03-2026 15:15
CHANGES	27-03-2026 15:15
INFO_BIN	27-03-2026 15:14
INFO_SRC	27-03-2026 15:14
LICENSE	27-03-2026 15:14
mysql-connector-j-9.7.0	27-03-2026 15:15
README	27-03-2026 15:14

And now link this mysql-connector-j file inside ide :-

Click on file and click on Project Structure

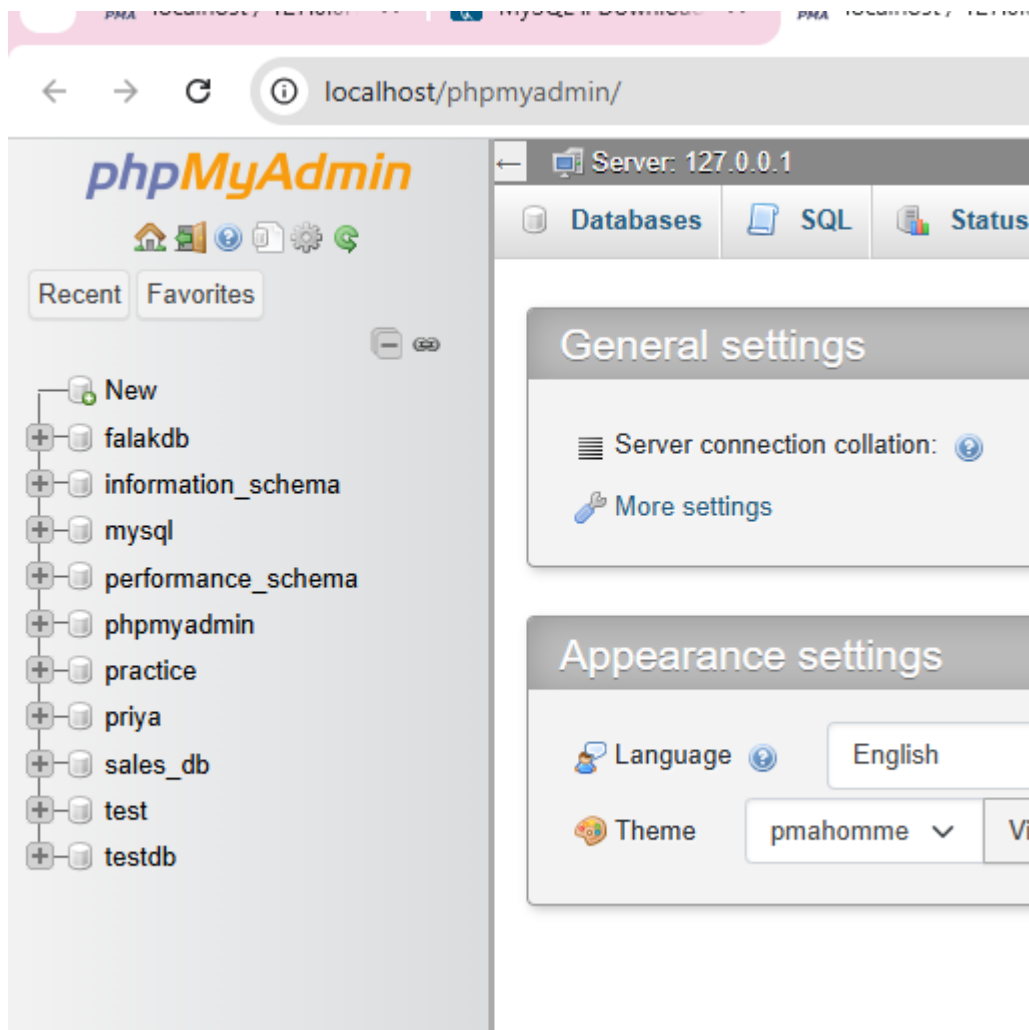


And then click on Libraries as shown below and select mysql-connect-j.jar file



And click on apply and press ok

And create database testdb inside mysql as shown below :-



And finally run your code inside **IntelliJ** ide

